

Predictive Analysis of Personnel Relationship in Graph Database

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Abstract : Nowadays, social networks are so popular and widely used in all over the world. In addition, searching personal information of each person and searching connection between them (peoples' relation in real world) becomes interesting issue in our society. In this paper, we propose a framework with three portions for exploring peoples' relations from their connected information. The first portion focuses on the Graph database structure to store the connected data of peoples' information. The second one proposes the graph database searching algorithm, the Modified-SoS-ACO (Sense of Smell-Ant Colony Optimization). The last portion proposes the Deductive Reasoning Algorithm to define two persons' relationship. This study reveals the proper storage structure for connected information, graph searching algorithm and deductive reasoning algorithm to predict and analyze the personnel relationship from peoples' relation in their connected information.

Keywords : personnel information, graph storage structure, graph searching algorithm, deductive reasoning algorithm

Conference Title : ICCIS 2014 : International Conference on Computer and Information Sciences

Conference Location : Osaka, Japan

Conference Dates : October 12-13, 2014